Application No.: 10/712589 Case No.: 59391US002

## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1. (Canceled)
- 2. (Canceled)
- 3. (Currently Amended) A polymer electrolyte membrane comprising a highly fluorinated polymer comprising: a perfluorinated backbone, first pendent groups which comprise sulfonic acid groups, and crosslinks comprising trivalent groups according to the formula:

The-polymer-electrolyte-membrane-according-to-claim 1 wherein said first pendent groups are according to the formula: -O-CF<sub>2</sub>-CF<sub>2</sub>-CF<sub>2</sub>-CF<sub>2</sub>-SO<sub>3</sub>H.

- 4.-8. (Canceled)
- 9. (Currently Amended) A method of making a polymer electrolyte membrane comprising the steps of:
- a) providing a highly fluorinated polymer comprising: a perfluorinated backbone,
  first pendent groups which comprise sulfonyl halide groups, and second pendent groups
  which comprise nitrile groups;
  - b) forming said fluoropolymer into a membrane;
  - c) trimerizing said nitrile groups to form crosslinks; and
  - d) converting said sulfonyl halide groups to sulfonic acid groups;

The method according to claim-7-wherein said first pendent groups are according to the formula: -O-CF<sub>2</sub>-CF<sub>2</sub>-CF<sub>2</sub>-SO<sub>2</sub>X.

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10. (Currently Amended) A method of making a polymer electrolyte membrane comprising the steps of:

- a) providing a highly fluorinated polymer comprising: a perfluorinated backbone, first pendent groups which comprise sulfonyl halide groups, and second pendent groups which comprise nitrile groups:
  - forming said fluoropolymer into a membrane;
  - c) trimerizing said pitrile groups to form crosslinks; and
- d) converting said sulfonyl halide groups to sulfonic acid groups; wherein said second pendent groups are selected from -C=N and groups according to the formula: -R<sup>1</sup>-C=N, where R<sup>1</sup> is a branched or unbranched perfluoroalkyl or perfluoroether group comprising 1-15 carbon atoms and 0-4 oxygen atoms; and The method according to claim 8-wherein said first pendent groups are according to the formula: -O-CF<sub>2</sub>-CF<sub>2</sub>-CF<sub>2</sub>-CF<sub>2</sub>-SO<sub>2</sub>X.
- 11.-16. (Canceled)
- 17. (Original) A polymer electrolyte membrane made according to the method of claim 9.
- 18. (Original) A polymer electrolyte membrane made according to the method of claim 10.
- 19.-22. (Canceled)
- 23. (Currently Amended) A polymer membrane comprising a highly fluorinated polymer comprising: a perfluorinated backbone, first pendent groups which comprise groups according to the formula -S0<sub>2</sub>X, where X is F, Cl, Br, OH, or -O-M<sup>+</sup>, where M<sup>+</sup> is a monovalent cation, and crosslinks comprising trivalent groups according to the formula:

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The polymor-membrane-according to claim-21 wherein said first pendent groups are according to the formula: -O-CF<sub>2</sub>-CF<sub>2</sub>-CF<sub>2</sub>-CF<sub>2</sub>-SO<sub>2</sub>X.

24.-26. (Canceled)

27. (Currently Amended) A polymer comprising a highly fluorinated polymer comprising: a perfluorinated backbone, first pendent groups which comprise groups according to the formula -S02X, where X is F, Cl, Br, OH, or -O-M+, where M+ is a monovalent cation, and crosslinks comprising trivalent groups according to the formula:

-Fhe-polymer-according to claim-25 wherein said first pendent groups are according to the formula: -O-CF<sub>2</sub>-CF<sub>2</sub>-CF<sub>2</sub>-SO<sub>2</sub>X.

28. (Canceled)